

National Aeronautics and Space Administration



# Research Opportunities in Space and Earth Science (ROSES) – 2021

# Agenda

- Introduction to ROSES
- What's new in ROSES-2021:
  - Biological and Physical Sciences now in Appendix E
  - 7 Planetary Programs have No Due Date (NoDD)
  - Requirement re: letters of resource support from facilities has changed
  - Budget Narrative and Details together (again?)
  - Review of new program elements
- Keeping track of changes after release
- Other (SARA) resources for proposers:
  - FAQs
  - POCs
  - Stats
  - Volunteer for reviews
  - Library of links and PDFs

# What is ROSES

"ROSES" = Research Opportunities in Space and Earth Sciences, is an "omnibus" solicitation, which means many topics, many due dates, and the default rules (about all the boring stuff like fonts, policies etc.) is (mostly) relegated to the "[ROSES-2021 Summary of Solicitation](#)". See the ROSES-21 landing web page at:

<http://solicitation.nasaprs.com/ROSES2021>

Read the Summary once and then focus on the science or technology in the short call.

# Table 1 of ROSES

[Table 1 of ROSES](#) is a check list of the parts of the proposal, listing whether various components are excluded, optional, or mandatory, page limits etc.,

References: Third component of proposal		
	Length	No page limit
	Excluded	No references to documents unavailable to reviewers. See <a href="https://science.nasa.gov/researchers/sara/faqs#19">https://science.nasa.gov/researchers/sara/faqs#19</a> .
Data Management Plan (DMP) fourth component of proposal		
	Length	2 pages
	Required	Unless otherwise stated, a DMP or explanation of why it is not needed must be provided in this section.
	Content	See Section II(c) and the <a href="#">DMP FAQ</a> for content and templates.

# Table 1 of ROSES

[Table 1 of ROSES](#) may now be downloaded as a stand-alone PDF from the ROSES-2021 NSPIRES page at <https://solicitation.nasaprs.com/ROSES2021>

Science Mission Directorate

NASA Research Announcement

Research Opportunities in Space and Earth Sciences 2021 (ROSES-2021)

Solicitation: NNH21ZDA001N

## Dates

Release Feb 12, 2021

Close Apr 28, 2022

## Announcement Documents

> [DUE DATES: Table 2 lists and links to all program elements in due date order as amended \(.HTML\)](#)

> [DUE DATES: Table 3 lists and links to all program elements in appendix order as amended \(.HTML\)](#)

→> [Table 1: ROSES-21 Checklist for Proposers \(also part of the Summary of Solicitation and Full ROSES documents\) \(.PDF\)](#)

> [ROSES 2021 Summary of Solicitation \(.PDF\)](#)

# Along with...

Links to: HTML Tables [2](#) and [3](#) (Due Dates), PDFs of [the Summary of Solicitation](#), [Amendments](#), and [Clarifications and Corrections](#) to ROSES. Also, there is a link to [the new grants policy page](#) with the [2021 guidebook for proposers](#).

## Amendment Documents

Title



> [Amendments](#) (As of: February 23, 2021)

## Other Documents

Title



> [ROSES 2021 Corrections and Clarifications as of February 18, 2021 \(.PDF\)](#)

> [The NASA 2021 Guidebook for Proposers and other useful information may be found on the Grants Policy web page at   
\[https://www.nasa.gov/offices/ocfo/gpc/regulations\\\_and\\\_guidance\]\(https://www.nasa.gov/offices/ocfo/gpc/regulations\_and\_guidance\)](#)

# Tables 2 and 3 of ROSES

The lists of "Program elements" (calls for proposals) in ROSES may be found in Tables [2](#) and [3](#) of ROSES, web pages that list them either by date or by "Division" i.e., A = Earth Science, B = Heliophysics etc.

<http://solicitation.nasaprs.com/ROSES2021table2>  
and

<http://solicitation.nasaprs.com/ROSES2021table3>

# Table 2 of ROSES-21 (sorted by due date)

ROSES-2021 Table 2

https://solicitation.nasaprs.com/ROSES2021table2

Search

st raptor NSSC GrantStatus Google ROSES-2020 Table 2 ROSES-2021 Table 2 NoDD ROSES21 Blog FAQs

ROSES-2021  
TABLE 2: SOLICITED RESEARCH PROGRAMS  
(In Order of Full/Step-2 proposal due dates) [1]

APPENDIX	PROGRAM	NOI/Step 1 DUE DATE	PROPOSAL DUE DATE
C.15	<a href="#">Planetary Protection Research</a>	04/12/2021	05/13/2021
F.6	<a href="#">Science Activation Program Integration</a>	04/15/2021	05/14/2021
<b>B.17</b>	<b><a href="#">Interdisciplinary Science for Eclipse</a></b>	<b>04/07/2021 (Step-1)</b>	<b>05/19/2021 (Step-2)</b>
D.2	<a href="#">Astrophysics Data Analysis</a>	04/01/2021	05/20/2021
<b>B.7</b>	<b><a href="#">Space Weather Science Application Research to Operations-to-Research</a></b>	<b>04/01/2021 (Step-1)</b>	<b>05/25/2021 (Step-2)</b>
F.3	<a href="#">Exoplanets Research Program</a>	03/26/2021 (mandatory NOI)	05/27/2021

NOIs Optional →

NOIs Mandatory →

Step-1 Proposals are always Mandatory →

NOI Mandatory →

If the NOI column says N/A then NOI is not requested at all

# NOI vs Step-1 Proposal

Reminder: Whereas an NOI is submitted by an individual and thus you may dash that off and submit it the evening that its due, a proposal is submitted by your organization, not by you, the Principal Investigator (PI). The PI "releases" a proposal to the organization, but it's an authorized official at the organization who submits a proposal, even a Step-1. Thus, for a Step-1 its imperative that you know your organizations rules about how far in advance a proposal must be released to org. the proposal submission cut off is typically 11:59 pm eastern time on the due date but that late cut off is really just for folks Hawaii. If you are on the east coast and release your proposal to your organization at 10 pm, your AOR will presumably have gone home, and it won't get submitted.

# What's New in ROSES-2021

- The Division of Biological and Physical Sciences (BPS), formerly of HEOMD, is now part of SMD and the BPS calls for proposals appear in Appendix E of ROSES-2021.
- The cross-division programs that, in prior years, were in Appendix E are now in Appendix F.
- The previously separated Budget Narrative and Details sections have been united in a single section, making it consistent with the [2021 Guidebook for Proposers](#).
- There is a new Guidebook for Proposers. They changed the URL, again. This and other grants related things are at: [https://www.nasa.gov/offices/ocfo/gpc/regulations\\_and\\_guidance](https://www.nasa.gov/offices/ocfo/gpc/regulations_and_guidance)

# What's New: ROSES-wide policy continued

- The requirements regarding letters of resource support from facilities have been modified. ROSES no longer requires that a facility or resource be under the "control" of the team member. For any facility required for the proposed effort, the proposal must state which team member has access OR provide a letter of resource support from the facility or resource confirming that it is available for the proposed use during the proposed period.
- The order of some sections of the *Summary of Solicitation* have changed, most notably flight-based research investigations are now in Section VIII.

# Continuing from prior years

- Data Management Plans will be peer reviewed and will be part of the grade given to the proposal, see <https://science.nasa.gov/researchers/sara/faqs/dmp-faq-roses/>
- Uniform expectations/requirements across all of ROSES regarding data and software. See Research Overviews (i.e., A.1, B.1, C.1...)
- Identification and potential special evaluation of some high-(intellectual) risk high-impact proposals,
- Ban on bilateral work with PRC organizations continue,
- Accepted manuscript versions of peer-reviewed publications from ROSES awards must be uploaded into "[PubSpace](#)" NASA's part of NIH PubMed. NASA Civil Servants and contractors will use the 1676 via <https://strives.nasa.gov/>, grantees <https://sti.nasa.gov/submit-to-pubspace>. Help from <https://sti.nasa.gov/contact-us>.

# Dual-anonymous peer review

The dual-anonymous peer review (DAPR) process is one in which, not only are proposers unaware of the identity of the members on the review panel (normal), but the reviewers are not told the identity of the proposers until after the evaluation of the proposals (and only then the selectable ones). For these programs there are special instructions for proposal preparation in the call for proposals, in a file under other documents on the NSPIRES page for DAPR calls, and at

<https://science.nasa.gov/researchers/dual-anonymous-peer-review>

# Dual-anonymous peer review

In ROSES-21 the programs evaluating proposals using DAPR are:

- A.15 Cryospheric Science (new)
- B.4, Heliophysics Guest Investigators-Open
- C.7-11 The Planetary Data Analysis Programs (NFDAP, LDAP, MDAP, CDAP, DDAP) (new)
- D.2 Astrophysics Data Analysis, and
- The Astrophysics Guest Investigator/Observer Calls, i.e., Swift, Fermi, NuSTAR, TESS, and NICER.
- I don't know whether the XRISM Guest Scientist call will be DAPR or not (its TBD).
- Astrophysics Theory (new)
- F.3 Exoplanets Research (new)

# Dual-anonymous peer review, cont.

Any program element that is using DAPR will:

- 1) clearly indicate that this is the case in the call,
- 2) contain a special section with detailed instructions about how to prepare proposals,
- 3) [link to a special web FAQ on this subject](https://science.nasa.gov/researchers/dual-anonymous-peer-review), at <https://science.nasa.gov/researchers/dual-anonymous-peer-review>
- 4) and the NSPIRES page of any program using DAPR will host "Guidelines for Anonymous Proposals" under "Other documents".

# What's New: Appendix A (Earth Science)

Appendix A (Earth Science) Atmospheric Composition Radiation Sciences Program will be soliciting its own program element: A.17 Arctic Radiation-Cloud-Aerosol-Surface Interaction Experiment (ARCSIX). A few program elements are returning after a hiatus, including Remote Sensing of Water Quality as A.21 and Health & Air Quality as A.37. Moreover, A.15 Cryospheric Sciences will evaluate proposals using "dual-anonymous peer review". Finally, a number of programs in Appendix A require proposers use the Earth Science standard templates for the Table of Work Effort and Current and Pending Support. Any programs that require the use of these templates will say so clearly and they may be downloaded from the "SARA" web page at:

<https://science.nasa.gov/researchers/templates-for-earth-science-division-appendix-a-roses-proposals>.

# What's New: Appendix B

In Appendix B there are three new program elements have been introduced in ROSE-2021: B.15 Geospace Dynamics Constellation Interdisciplinary Scientists (TBD will award contracts to non-govt. orgs), B.16 Heliophysics Mission Concept Studies (TBD, draft text released late in 2020) and, added by amendment: B.18 Heliophysics Living With a Star Tools and Methods. Also added by amendment Interdisciplinary Science for Eclipse is back as B.17.

Program element B.4, Heliophysics Guest Investigators-Open will continue to evaluate proposals using dual-anonymous peer review.

# What's New: Appendix C (Planetary)

In Appendix C (Planetary Science) a new participating scientist program for JAXA's Martian Moons eXploration (MMX) Mission will be solicited in C.24, and Juno PSP returns in C.25.

Seven programs in Planetary Science will accept proposals at any time without any preliminary statement such as a Notice of Intent or Step-1 proposal (details next slide).

All of the data analysis programs (i.e., C.7 NFDAP, C.8 LDAP, C.9 MDAP, C.10 CDAP, and C.11 DDAP), will evaluate proposals using "dual-anonymous peer review".

C.11 Discovery DAP will not request NSPIRES cover page budgets or total budgets with the technical proposal. At submission proposers must identify the cost category: small <\$75K/year; medium <\$175K/year or large <\$300K/year. Budgets will be requested later only for selectable proposals.

# What's New: Appendix C (Planetary) Cont. NoDD

Seven programs in Planetary Science will accept proposals at any time without any preliminary statement such as a Notice of Intent or Step-1 proposal. The No Due Date (NoDD) programs are: C.2 Emerging Worlds, C.3 Solar System Workings, C.4 Planetary Data Archiving, Restoration, and Tools, C.5 Exobiology, C.6 Solar System Observations, C.12 Planetary Instrument Concepts for the Advancement of Solar System Observations, and C.16 Laboratory Analysis of Returned Samples.

This approach has been used successfully in the past for Rapid Response and Novel Research in Earth Science, but never for such large programs. While this will make life more complicated for the program managers, it should be more convenient for proposers. See <https://science.nasa.gov/researchers/NoDD>.

Caveat: Your normal institutional rules still apply, of course.

# NoDD Continued.

Those proposing to NoDD programs are urged to read the NoDD FAQ and "explanatory document" posted on NSPIRES pages of these program elements and on the SARA NoDD page at <https://science.nasa.gov/researchers/NoDD>.

These explain how the restriction on "duplicate" proposals was updated to account for NoDD and a restriction on "resubmissions" of proposals to NoDD programs has also been added to prohibit immediate resubmission. [C.1 The Planetary Science Research Program Overview](#) will be updated very soon.

Though the NSPIRES page for those programs display a (March 29, 2022) "Proposal Dues" date, that is simply the end date for the current ROSES, after which proposals may be submitted to the program element with the same name in the next ROSES. NoDD programs will review proposals throughout the year with a cadence that will depend on the rate at which proposals are submitted.

# What's New: Appendix D (Astrophysics)

In Appendix D (Astrophysics), a new program element for Guest Scientists for the X-Ray Imaging and Spectroscopy Mission (XRISM) is planned for this year in D.12, and Nancy Grace Roman Space Telescope Research and Support Participation Opportunities is planned for this year as D.16. Finally, all Astrophysics GO/GI programs, D.2 Astrophysics Data Analysis and D.4 Astrophysics Theory will evaluate proposals using [dual-anonymous peer review](#).

# What's New: Appendix E (BPS)

Appendix E is now Biological and Physical Science (BPS).  
This is the list of BPS program elements:

- E.1 BPS Research Program Overview
- E.2 Biophysics
- E.3 Complex Fluids
- E.4 Combustion Science
- E.5 Fluid Physics
- E.6 Fundamental Physics
- E.7 Materials Science
- E.8 Physical Sciences Informatics
- E.9 Space Biology (this was one program element in ROSES-2020 but may be split out into more than one this year)

# What's New: Appendix F (Cross Division)

Appendix F is now the Cross-Division Appendix.

Program element F.3, Exoplanets, will evaluate proposals using [dual-anonymous peer review](#).

Program elements F.4 Habitable Worlds and F.7 Support for Open Source Software Tools, Frameworks, and Libraries will not be solicited in ROSES-2021.

# Changes after release

There are a few ways to keep track of changes after release:

- HTML Tables 2 & 3 of ROSES
- Subscribe to the SMD NSPIRES mailing list(s)
- Subscribe to the Google Calendars
- ROSES-21 Blog on the SARA web page

# Changes after release: example from ROSES-20

## Bold and red in Tables 2 and 3 means a change

Step-2 due date delayed  
but text was not changed

B.2	<a href="#">Heliophysics Supporting Research</a>	11/18/2020 (Step-1)	<b>03/03/2021</b> (Step-2)
C.8	<a href="#">Lunar Data Analysis</a>	12/01/2020 (Step-1)	<b>03/05/2021</b> (Step-2)
B.16	<b><u>Parker Solar Probe Guest Investigators</u></b>	<b>02/03/2021</b> (Step-1)	03/17/2021 (Step-2)
<b>E.12</b>	<b><u>Space Biology</u></b> <- Totally new ->	<b>12/17/2020</b> (Step-1)	<b>03/23/2021</b> (Step-2)
A.28	<a href="#">Rapid Response and Novel Research in Earth Science</a>	N/A	Rolling submission s through 03/29/2021
<b>B.15</b>	<b><u>GOLD-ICON Guest Investigators</u></b>	<b>03/04/2021</b> (Step-1)	04/ <b>21/2021</b> (Step-2)

Step-1 and Step-2  
due dates delayed

# Changes and Additions to ROSES after release: NSPIRES mailing lists

Any other new program elements added, TBD programs that are finalized, or major changes in scope (or due date) will be announced by an Amendment to ROSES. You will get an email if you subscribe to the SMD mailing list in NSPIRES under "Account Management".

## 5. Science Mission Directorate

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Astrophysics              | <input checked="" type="checkbox"/> Earth Science     |
| <input checked="" type="checkbox"/> Heliophysics              | <input checked="" type="checkbox"/> Physical Sciences |
| <input checked="" type="checkbox"/> Planetary Science         | <input checked="" type="checkbox"/> Space Biology     |
| <input checked="" type="checkbox"/> General Subscription List |   |

# Example NSPIRES email to SMD General Subscription list: Amendments to ROSES

**From:** Smd <smd-bounces@listsrv2.nasaprs.com> on behalf of "smd@listsrv2.nasaprs.com" <smd@listsrv2.nasaprs.com>

**Reply-To:** "smd@listsrv2.nasaprs.com" <smd@listsrv2.nasaprs.com>

**Date:** Monday, March 8, 2021 at 11:02 AM

**To:** "smd@listsrv2.nasaprs.com" <smd@listsrv2.nasaprs.com>

**Subject:** [EXTERNAL] [Smd] ROSES-21 Amendment 5: Final text and due dates for B.15 The Geospace Dynamics Constellation Interdisciplinary Scientists program.

## **ROSES-21 Amendment 5: Final Text and Due Dates for B.15 The Geospace Dynamics Constellation Interdisciplinary Scientists Program**

ROSES-2021 program element [B.15 The Geospace Dynamics Constellation \(GDC\) Interdisciplinary Scientists \(IDSs\) program](#) seeks individuals to expand the GDC mission science team. Their activities will include both mission-specified and IDS-specific tasks. These activities will build upon the [GDC Science and Technology Definition Team \(STDT\) Final Report](#) and NASA's GDC (pre-) formulation efforts. These IDSs will join the GDC science team for Phases A-D and participate in GDC development activities necessary to move the team towards a successful Key Decision Point B and beyond. The IDSs will work with the GDC project under the management of the GDC Project Scientist.

ROSES-2021 Amendment 5 releases final text and due dates for [B.15 GDC IDS](#). Step-1 proposals are due April 22, 2021, and Step-2 proposals are due June 8, 2021.

On or about March 8, 2021, this Amendment to the NASA Research Announcement "Research Opportunities in Space and Earth Sciences (ROSES) 2021" (NNH21ZDA001N) will be posted on the NASA research opportunity homepage at <http://solicitation.nasaprs.com/ROSES2021> and will appear on SARA's ROSES blog at: <https://science.nasa.gov/researchers/sara/grant-solicitations/roses-2021/>

Questions concerning [B.15 GDC IDS](#) may be directed to Jared Leisner at [jared.s.leisner@nasa.gov](mailto:jared.s.leisner@nasa.gov).

# Example NSPIRES email to Division list

**From:** Smdp <smdp-bounces@listsrv2.nasaprs.com> on behalf of "smdp@listsrv2.nasaprs.com" <smdp@listsrv2.nasaprs.com>  
**Reply-To:** "smdp@listsrv2.nasaprs.com" <smdp@listsrv2.nasaprs.com>  
**Date:** Tuesday, March 9, 2021 at 10:34 AM  
**To:** "smdp@listsrv2.nasaprs.com" <smdp@listsrv2.nasaprs.com>  
**Subject:** [EXTERNAL] [Smdp] Updates to B.17 ISE and C.3 SSW regarding 2021-22 Antarctic access.

## **Updates to B.17 Interdisciplinary Science for Eclipse and C.3 Solar System Workings regarding 2021-22 Antarctic access**

Based on the 2020-21 Antarctic season cancellations and the likelihood of similar cancellations for the 2021-22 season, notes have been added to [B.17 Interdisciplinary Science for Eclipse](#) and [C.3 Solar System Workings](#) indicating that proposers should not assume that NSF will provide proposers access to the Antarctic for the 2021-2022 field season.

In addition to the NSF [OPP Facebook page](#), any future announcements regarding NSF field seasons will be posted to the OPP Announcements page at: <https://www.nsf.gov/news/announcements.jsp?org=OPP>.

*You are receiving this email because you have subscribed, through NSPIRES, to the Planetary Science mailing list under the NASA Science Mission Directorate.  
If you wish to unsubscribe from this mailing list, access your NSPIRES account, click on Account Management, then click the Email Subscriptions link.  
If you need assistance, please contact the NSPIRES Help Desk at [NSPIRES-Help@nasaprs.com](mailto:NSPIRES-Help@nasaprs.com) or call 202-479-9376.*

# Changes to ROSES after release:

## ROSES page

### ROSES-2021 Amendments, Clarifications, and Corrections

Welcome to SARA's Research Opportunities in Space and Earth Sciences (ROSES)-2021 Blog, a way to keep track of changes to ROSES-2021. To effectively search this page for changes to ROSES relevant to a certain division or keyword you click on the magnifying glass in the upper right corner and search on "ROSES" and the key word or name of the division (e.g., "ROSES Astrophysics" or "ROSES Flight").

#### Amendment 5: Final text and due dates for B.15 The Geospace Dynamics Constellation Interdisciplinary Scientists program

**SUN** | Mar 8, 2021

ROSES-2021 program element B.15 The Geospace Dynamics Constel

#### Amendment 4: B.5 LWS Science Final Text and Due Dates.

**SUN** | Feb 26, 2021

B.5 Living With a Star (LWS) Science emphasizes the scien

#### Amendment 3: B.7 Space Weather Science Application Research-to-Operations-to-Research Final Text and Due Dates.

**SUN** | Feb 23, 2021

The primary goal of the Space Weather Science Application R

#### For Researchers

- > [COVID and Awards](#)
- > [SMD Community Town Hall Meetings](#)
- > [Contact SARA](#)
- > [Advisory Committees](#)
- > [ROSES FAQ](#)
- > [Dual-Anonymous Peer Review](#)
- > [Grant Solicitations](#)
- > [Announcement of Opportunity](#)
- > [Grant Stats](#)
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- > [How To Guide](#)
- > [Library and Useful Links](#)
- > [Volunteer for Review Panels](#)
- > [Data & Pubs Rules](#)
- > [New PI Resources](#)

#### Amendment 2: New Opportunity in ROSES: B.18 Living With a Star Tools and Methods

<http://science.nasa.gov/researchers/sara/grant-solicitations/roes-2021/>

# Changes and Additions to ROSES after release:

## [How to subscribe to the ROSES Google Due Date Calendar Library \(and useful links\)](#)

### Documents

- [NASA 2018 Strategic Plan](#)
- [NASA Plan for Increasing Access to Results of Federally Funded Research \(July 2015\)](#)
- [SMD Policy on Late Proposals](#)
- [NSPIRES team member commitment guide](#)
- [Preparing conventional ROSES Proposals for DAPR](#)
- [ADAP DAPR Town Hall](#)
- [ROSES Dual Anonymous Peer Review Virtual Town Hall Slides](#)
- [Hertz 2019 Memo regarding Astrophysics Dual-Anonymous Peer Review](#)
- [SMD Policy on Peer Review Conflicts of Interest](#)
- [SMD Peer Review Policy](#)
- [SMD Reconsideration Policy](#)
- [SMD Codes of Conduct for Review Panels](#)
- [SPD 15 Center Community Service Policy](#)
- [SPD-16 Civil Servant Peer Review Conflict of Interest](#)
- [SPD-26B Communications for Missions \(updated and signed\)](#)
- [SPD-29 External Websites, Original with Erratum](#)
- [SPD 31 Student Collaboration](#)
- [SPD-33 Citizen Science](#)
- [How to Submit a Step-1 Proposal](#)
- [How to Submit a Step-2 Proposal](#)
- [How to Subscribe to the ROSES-2021 Due Date Calendars](#)
- [Example ROSES Panel evaluation](#)

### For Researchers

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- > [Data & Pubs Rules](#)
- > [New PI Resources](#)



You are here →  
(SARA web page)

←Google due date calendar

Other useful things on the SARA web page at  
<https://sara.nasa.gov>

- Links to PDFs of Policies in the Library as well as other documents of interest like the new [SMD Code of Conduct for Review Panels](#)
- Points of Contact
- Grant Stats
- Volunteer reviewer forms
- Proposal writing advice for early career researchers
- FAQs on ROSES, DMPs, redacted budgets etc.

# Links

- [Dual-Anonymous Peer Review \(DAPR\) Web Page](#)
- [Link to 2020 Science Plan and other documents](#)
- [Proposal writing 101 presentation \(Adobe Connect Recording\)](#)  
<https://www.youtube.com/watch?v=R56T457HdDI> (March 2020 Ames Research Center)
- [Link to Max's proposal writing 101](#)
- [Slides from Proposal writing 101 presentation \(PPTX ~8.5 MB\)](#)
- [The Planetary Data System Data Release calendar](#) 
- [Link to slides for new proposers to NASA. Presented at the \(OSTEM Sponsored\) G Proposal Development Workshop](#) 
- [Christina Richey tips on proposal writing:](#)

↑  
Link to Christina  
Richey's proposal  
writing talk on  
Youtube



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## For Researchers

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# Volunteer for Review Panels

Welcome to the volunteer reviewer page!

To increase the pool of un-conflicted reviewers we are seeking subject matter experts (SMEs) to engage in discussions at a virtual panel meeting or provide external (email) reviews. New researchers including post doctoral fellows and sometimes upper level graduate students are welcome. Just follow the links below to the volunteer review forms and indicate the fields in which you consider yourself to be a subject matter expert and click the boxes. If your expertise matches our program needs NASA will contact you to discuss potential review assignments. Qualified SMEs may, and are encouraged, to volunteer to one or more program reviewer call. If you volunteered in a prior year and were not invited or were invited but not available, please complete a new form(s). Use the following the links to current program-specific volunteer review forms. NASA periodically updates this page to remove or add volunteer links.

Please direct questions or corrections on this page to [SARA@nasa.gov](mailto:SARA@nasa.gov).

We are currently seeking reviewers for:

- [Earth Science Applications: Water Resources](#)
- [Earth Surface and Interior and Space Geodesy Programs](#)
- [Heliophysics Supporting Research \(ROSES B.2\)](#)
- [Heliophysics Guest investigators \(ROSES B.4\)](#)
- [Parker Solar Probe Guest Investigators \(ROSES B.16\)](#)
- [GOLD-ICON Guest Investigators](#)
- [Payloads and Research Investigations on the Surface of the Moon](#)
- [Space Biology](#)
- [Solar System Workings \(ROSES C.3\)](#)
- [Lunar Data Analysis \(ROSES C.8\)](#)
- [Planetary Protection Research \(ROSES C.15\)](#)
- [Yearly Opportunities for Research in Planetary Defense](#)

## For Researchers

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Please provide your last name: \*

Please provide your email address: \*

Are you volunteering to serve as a panelist, an executive secretary, or an external reviewer? The executive secretary role is typically filled by senior graduate students or early postdocs that have not previously served on a panel. External reviewers are typically asked to submit between one and three mail-in reviews but do not attend the panel review itself. \*

- ☐ Panelist
- ☐ Executive secretary (Typically filled by senior graduate students or early postdocs that have not previously served on a panel.)
- ☐ External reviewer (Typically asked to submit between one and three mail-in reviews but do not attend the panel review itself.)

Please specify the topics of study in your area(s) of expertise. You can select multiple options. Choose "other" to add something we have missed or to further describe your expertise in one of the listed areas, please describe in the comment box below. \*

- ☐ Plant Biology
- ☐ Animal Biology (Vertebrates)
- ☐ Animal Biology (Invertebrates)
- ☐ Microbiology
- ☐ Molecular Biology
- ☐ Biochemistry
- ☐ Omics
- ☐ Bioinformatics/Computation Biology
- ☐ Biostatistics
- ☐ Radiation Biology
- ☐ Other (please specify in the box below)

Volunteer to serve on a review panel, continued. Space Biology as an example.

# Example excerpt from grant stats spreadsheet

ROSES year	Solicitation or Program Element Title	Submitted	Selected*	% Selected	SMD Division	Avg K\$/Yr	Notes * Selected means "encouraged" or "invited" f
2020	Exoplanets Research Program	153	26	17%	Cross Division		7 declined not compliant. 16 remain selectable
2020	Habitable Worlds Step-1	147	71	N/A	Cross Division		
2020	Habitable Worlds Step-2	71			Cross Division		Astro = 198; Earth = 351; Helio = 36; Planetary = 24; plus two partial selections
2020	Future Investigators in NASA Earth and Space Science and Technology	834			Cross Division		
2020	Science Activation Program Integration	32	7	22%	Cross Division		
2020	Support for Open Source Tools, Frameworks, and Libraries	61			Cross Division		
2020	Supplemental Open Source Software Awards	2			Cross Division		
2020	Citizen Science Seed Funding Program	35			Cross Division		
2020	Payloads and Research Investigations on the Surface of the Moon Step-1	52	38	N/A	Cross Division		
2020	Payloads and Research Investigations on the Surface of the Moon Step-2	29			Cross Division		
2019	Astrophysics Research and Analysis	see notes	see notes	see notes	Astrophysics		Not Solicited This Year
2019	Astrophysics Theory Program	236	52	22%	Astrophysics		
2019	Swift Guest Investigator - Cycle 16	120	44	37%	Astrophysics		
2019	Fermi Guest Investigator - Cycle 13	110	40	36%	Astrophysics		
2019	Strategic Astrophysics Technology	see notes	see notes	see notes	Astrophysics		Not Solicited This Year
2019	Nancy Grace Roman Technology Fellowships	2	2	100%	Astrophysics		
2019	NuSTAR General Observer - Cycle 6	173	42	24%	Astrophysics		
2019	TESS Guest Investigator - Cycle 3	155	46	30%	Astrophysics		
2019	NICER Guest Observer - Cycle 2	91	52	57%	Astrophysics		
2019	Astrophysics Science SmallSat Studies	32	8	25%	Astrophysics		
2019	System-Level Segmented Telescope Design - Technology Maturation	3	2	67%	Astrophysics		
2019	Land Cover Land Use Change Step-1	30	29	N/A	Earth Science		Step-1 merely "encouraged" vs. discouraged, but all
2019	Land Cover Land Use Change Step-2	25	9	36%	Earth Science		
2019	Physical Oceanography	40	8	20%	Earth Science		6 full selections 2 partial selections
2019	Ocean Salinity Science Team	30	11	37%	Earth Science		One declined as non compliant. Two partial selection
2019	Sea Level Change Science Team	15	7	47%	Earth Science		6 out of the 7 selected were not fully funded.
2019	Surface Water and Ocean Topography Science Team	68	17	25%	Earth Science		The 17 selected includes 2 partial selections.
2019	Modeling Analysis and Prediction	19	10	53%	Earth Science		
2019	Aura Science Team	66	17	26%	Earth Science		17 Includes one partial selection. One remains selec
2019	Terrestrial Hydrology	53	11	21%	Earth Science		
2019	The Soil Moisture Active-Passive Mission Science Team	103	29	28%	Earth Science		
2019	Weather and Atmospheric Dynamics	85	20	24%	Earth Science		
2019	Earth Surface and Interior	60	14	23%	Earth Science		
2019	GRACE-FO Science Team	38	21	55%	Earth Science		
2019	Rapid Response and Novel Research in Earth Science	6	4	67%	Earth Science		
2019	Airborne Instrument Technology Transition	14	4	29%	Earth Science		
2019	Interdisciplinary Research in Earth Science	118	35	30%	Earth Science		
2019	Earth Science Research from Operational Geostationary Satellite Systems	152	27	18%	Earth Science		
2019	ICESat-2 Research	96	24	25%	Earth Science		
2019	Global Navigation Satellite System Research	24	11	46%	Earth Science		
2019	PACE Science and Applications Team	52	23	44%	Earth Science		Includes 6 partial selections.
2019	Understanding Changes in High Mountain Asia	38	4	11%	Earth Science		
2019	Advancing Collaborative Connections for Earth System Science	72	11	15%	Earth Science		
2019	Instrument Incubator Program	70	19	27%	Earth Science		
2019	Sustainable Land Imaging - Technology	12	6	50%	Earth Science		
2019	Utilization of Airborne L- and S- Band Synthetic Aperture Radar Imagery over North America - Joint	45	11	24%	Earth Science		2 were declined as non compliant
2019	Decadal Survey Incubation Study Teams: Planetary Boundary Layer and Surface Topography and Vege	62	25	40%	Earth Science		
2019							
2019	Heliophysics Supporting Research Step-1	140	140	N/A	Heliophysics		Step-1 all "Invited"
2019	Heliophysics Supporting Research Step-2	122	30	25%	Heliophysics		one Step-2 proposal was declined as non compliant.

# Points of contact for ROSES

at <https://science.nasa.gov/researchers/sara/program-officers-list/>

[Astrophysics](#) | [Earth Science](#) | [Cross Division](#) | [Heliophysics](#) | [Planetary Science](#) |  
[Biological and Physical Science Programs](#)

## Astrophysics Programs

- Astrophysics R&A Lead: Stefan Immler: [email](#), 202-358-0615, [bio](#)
- Astrophysics Data Analysis (ADAP): Doug Hudgins: [email](#), 202-358-0988, [bio](#)
- Astrophysics Research and Analysis (APRA): Dominic Benford: [email](#), 202-358-1261, [bio](#)
- Particle Astrophysics: Thomas Hams: [email](#), 202-358-5162
- Fundamental Physics: Thomas Hams: [email](#), 202-358-5162
- High-Energy Astrophysics (X-ray and Gamma-ray): Valerie Connaughton: [email](#), 202-358-1763
- Ultraviolet and Visible Astrophysics: Michael Garcia: [email](#), 202-358-1053, [bio](#)
- Infrared, Submillimeter, and Radio Astrophysics: Eric Tollestrup: [email](#), 202-358-0907
- Laboratory Astrophysics: William B. Latter: [email](#), 202-358-0734, [bio](#)
- Nancy Grace Roman Technology Fellowships (RTF): Mario Perez: [email](#), 202-358-1535, [bio](#)
- Astrophysics Theory (ATP): Evan Scannapieco: [email](#), 202-358-3730
- Theoretical and Computational Astrophysics Networks (TCAN): Evan Scannapieco: [email](#), 202-358-3730
- Roman Space Telescope Research and Support Opportunities: Dominic Benford: [email](#), 202-358-1261, [bio](#)
- Astrophysics "Pioneers": Michael Garcia: [email](#), 202-358-1053, [bio](#)

## Programs Related to Astrophysics Missions

- Astrophysics Science SmallSat Studies: Michael Garcia: [email](#), 202-358-1053

You are here →

- > [Announcement of Opportunity](#)
- > [Grant Stats](#)
- > [Program Officers List](#)
- > [How To Guide](#)
- > [Letters from SARA](#)
- > [Library and Useful Links](#)
- > [Fellowship Opportunities](#)
- > [Volunteer for Review Panels](#)
- > [Data & Pubs Rules](#)
- > [New PI Resources](#)

# See what won in the past: program selections

If there is a particular program of interest to you, simply visit the NSPIRES page of that program element from past years and look under "Selections"

## A.2 Land Cover/ Land Use Change

Okay

Number: **NNH20ZDA001N-LCLUC** Directorate: **Science Mission Directorate** Type: **NASA Research Announcement**

### Dates

Label	↑↓ Date	↑ Option ↑↓
Selection	Oct 07, 2020	
LCLUC2020 Proposals Due	Jun 01, 2020	
LCLUC2020 NOIs Due	Mar 16, 2020	
Release	Feb 14, 2020	

### Notices

- The description of the specific proposal opportunity on this page is contained in the document 'A.2 Land Cover/ Land Use Change'. The document 'A.1 Earth Science Research Overview' describes research activities within the NASA science division that is managing the specific proposal opportunity on this page and may impose requirements upon proposals submitted to this program element. The document 'Summary of Solicitation' describes the common requirements for all ROSES-2020 proposal opportunities. The documents 'Table 2' and 'Table 3' contain the list of all proposal opportunities and their due dates, sorted by due date or appendix number, respectively. All of these documents are kept up to date and incorporate amendments, clarifications, and corrections in a clearly identifiable manner.

### Documents

#### Announcement Documents

##### Title

> [DUE DATES: Table 2 lists and links to all program elements in due date order as amended \(.HTML\)](#)

> [DUE DATES: Table 3 lists and links to all program elements in appendix order as amended \(.HTML\)](#)

> [Summary of Solicitation ROSES-2020 as clarified July 6, 2020 \(.PDF\)](#)

> [Full ROSES-2020 complete solicitation as amended and clarified February 19, 2021 \(.PDF\)](#)

> [A.1 Earth Science Research Overview \(.PDF\)](#)

> [A.2 Land Cover/ Land Use Change \(.PDF\)](#)

#### Selections

##### Title

[Land Cover/Land Use Change](#)

# See what won in the past

But if you don't know of a particular program, you may search the NSSC grant status database to get a list of grants (only) based on key word from the title, university, PI etc., but this is grants only.

<https://www.nssc.nasa.gov/grantstatus>

# Links for Later

- Section I(c) of the ROSES Summary of Solicitation and
- <http://science.nasa.gov/researchers/sara/faqs>
- Budget FAQ: <http://science.nasa.gov/researchers/sara/how-to-guide/nspires-CSlabor/>
- Data management plans FAQ:  
<http://science.nasa.gov/researchers/sara/faqs/dmp-faq-roses/>
- Blog of ROSES amendments:  
<http://science.nasa.gov/researchers/sara/grant-solicitations/roses-2021/>
- Instructions for Google due date calendar and other useful things may be found at:  
<https://science.nasa.gov/researchers/sara/library-and-useful-links>
- <https://www.nasa.gov/open/researchaccess/pubspace>

# Thank you

## Questions?

If you think of a question later, you may always send it to [SARA@nasa.gov](mailto:SARA@nasa.gov)

Back up slides follow

# Research Access for Civil Servants and Contractors\* on site at NASA Centers (but not not coop scientists)

Submit your Accepted Manuscript through  
the STRIVES NF-1676 at  
<https://strives.nasa.gov/>

Need help?

STI Information Desk

<https://sti.nasa.gov/contact-us>

Center STI Managers Select "Contact/Help" at

<https://nasa.sharepoint.com/sites/NASASTIProgram/>

**NEW**

You can supply a  
researcher persistent  
identifier (PID),  
like ORCID.

\*Contractors approach is based on data rights, but onsite contractors tend to use the NF-1676.

# Research Access for Grantees (and coop scientists)



Coming Soon!  
NASA submission  
portal for external  
grantees to submit  
Accepted  
Manuscripts and  
other STI research  
products.

To submit your Accepted Manuscript


Start at the STI Research Access page

<https://sti.nasa.gov/submit-to-pubspace>

Need help?

STI Information Desk =

<https://sti.nasa.gov/contact-us>



NASA-funded researchers will be required to supply a  
researcher persistent identifier, like ORCID, when  
submitting documents. Get one now!

# High Risk/High Impact Review

We asked most of the ROSES-2018 panelists to assess the impact and (intellectual) risk of each proposal. We found that ~10% of proposals were high risk/high impact and those were selected at a higher rate than average (34 vs. 24%).

We were happy to see that, but last year surveyed proposers and reviewers and the Divisions have nominated a few high-risk/high-impact proposals not selected for funding through the normal review process for a second look by a special panel. That will occur spring 2021.

High risk = "reputational" or intellectual risk, not hardware that is likely to fail.

# Data Management Plans cont.

Whereas in past years most DMPs were collected in a mandatory plain text box on the NSPIRES cover pages, starting last year in ROSES-2020 the new default was that the data management plan must be placed in a 2-page section in the proposal PDF immediately following the references and citations for the S/T/M section of the proposal. This is how planetary has been doing it for years. In most cases the DMP does not count against the page limit for the S/T/M section.

Both Planetary and Helio have templates for the DMP (see notes for this slide)

# Data Management Plans cont.

The exceptions that don't follow the default will say so explicitly and they are the programs for which the nature of the work is inexorably linked to the handling of data so DMP is part of the page-limited S/T/M section of the proposal. B.7 Space Weather Science Applications, B.12 Heliophysics Data Environment Emphasis, C.4 Planetary Data Archiving, Restoration, and Tools, D.2 Astrophysics Data Analysis, and E.3 The Exoplanets Research Program.

# Dual-anonymous peer review, cont.

People have told me that this will not work because they will be able to tell who wrote the proposal even without the name on it.

You may be surprised to learn that, according to the folks who ran the Hubble review, in the vast majority of cases (like 90%) the reviewers were not able to correctly identify the authors of the proposal.

Please don't assume you have correctly identified the authors of the proposals, because you are wrong 9 times out of 10.

Moreover, social science shows that even just removing the names helps reviewers focus more on the science

# Dual-anonymous peer review, cont.

Proposers to these programs must provide two separate documents: an anonymized version of the proposal for peer review and a non-anonymized document that contains components of the proposal that would reveal the identities and affiliations of participating researchers, such as expertise, facilities and resources. The latter will be revealed to the panel only after the evaluation of all proposals and only for a subset of selectable proposals (typically the top third). If there are clear, compelling deficiencies in the expertise required to see through the goals of the proposal, the panel may note this in its comments to NASA. This review may not be used to upgrade proposals for having particularly strong team qualifications, nor may it be used to re-evaluate proposals.

# Redaction Continues

- The parts of ROSES proposals seen by reviewers must not show salary, fringe or overhead.
- The separately uploaded "Total" budget includes those details, but that is not seen by peer reviewers.
- See Section IV(b)iii of the ROSES Summary of Solicitation and the FAQ at <https://science.nasa.gov/researchers/sara/how-to-guide/nspires-CSlabor>
- Screen Captures follow.

# Cover Page Budget

There are three lines for Co-Is at other organizations. First, put funds for Co-I government organizations in lines 8 & 9. Put the funds that pass through your organization in line 5.

## Budget Period 1 - F. Other Direct Costs

Item	Funds Requested (\$)
1. Materials and Supplies	1500
2. Publication Costs	2000
3. Consultant Services	
4. ADP/Computer Services	300
Redacted{ 5. Subawards/Consortium/Contractual Costs	600000
6. Equipment or Facility Rental/User Fees	
7. Alterations and Renovations	
Redacted{ 8. Portion of award for NRL	150000
9. Portion of award for GSFC	80000
10. Dont use this line, its not redacted	
<b>Total Other Direct Costs:</b>	
<b>Total Period 1:</b>	
<b>Total Budget:</b>	
	\$ 833800
	\$ 833800
	\$ 833800

# Cover Page Budget

I used Section F line 5, the generic subaward line, for my \$60K subcontract to Miskatonic University, not that you can tell, because I could not modify the description of line 5. That this is for M-U will only become apparent later when you read the actual proposal.

Next, I used customizable line 8 for the \$150K that will be sent directly to my Co-I at Naval Research Lab and I entered "NRL portion of this award" in the description.

In line 9 I put the GSFC portion of the award and labeled it appropriately.

When the proposal is evaluated by the peer-review panel, they will not see any of the \$ numbers in the Personnel Sections or in Section F lines 5, 8 & 9, all of that will be automatically redacted.

From <http://science.nasa.gov/researchers/sara/how-to-guide/nspires-CSlabor/>

# Budget Details/Justification

Include costs of things (including those in a sub award) in the budget detail/justification in the main proposal PDF e.g., explain why does your Co-I need a \$3.5K MDO4000C oscilloscope, vs. a \$450 TBS1000B? Also, make reference to the subaward e.g., "0.5 FTE are allocated for Co-I Dr. H. West (Miskatonic, Arkham, Mass) as can be seen the summary table of work effort and full costs are in Section F line 5 of the cover page budget and in the separately uploaded Total Budget pdf file. Costs for labor, fringe and overhead are omitted consistent with ROSES instructions."

# Budget Details/Justification

Ditto consultants, no salary, fringe and overhead costs in the main proposal PDF. In the budget justification in the main proposal PDF you explain only the part that is not labor e.g., "The total cost of the consultants Goldshtik and Whorfin of the Banzai Institute is provided in the NSPIRES cover page budget in Section F line 3. The consultancy includes the cost of the rental of an oscillation overthruster from Professor Tohichi Hikita of Nagoya university at \$157/hour. This cost is quite reasonable given that similar facilities are twice as expensive.

# Total Budget Upload

- The Total Budget PDF is uploaded in exactly the same way that the proposal PDF is uploaded, but by choosing document type "Total Budget", see figure below. This Total Budget file will not be seen by peer reviewers. In general, these budget files are for Step-2 proposals only.

## Add Proposal Attachment

**Proposal:** Testing the theory of floaters, sinkers and hunters on g:

### Uploading Attachment Instructions

Use the form below to upload a document for your proposal.

- Select the type of document
- Choose the file on your local computer
- Click "Upload" to add the document to this proposal

### Upload Attachment

Attachment Type:

File:

Attachment Type:

File:

Upload

Cancel

# Table of Work Effort

Table of work effort in the main proposal PDF is merely a reporting of the planned work commitment for all participants, funded by NASA or not. A very simple example from Section IV(b)iii of the ROSES summary of Solicitation will appear on the next slide. Note, this table is outside of and is distinct from budget and the page limited main part of proposal, which must describe what work each team member will be doing. That doesn't belong here.

Templates for the planetary science division may be found at <http://tinyurl.com/hbnff8u> (refer to #2).

And for the Earth Science Division [here](#).

# (Simple) Table of Work Effort

Person and/or Role	Time charged to this proposal	Time not charged to this proposal	Total Time per person/year
PI, Edwina Mercer	3 months/year	N/A	3 months/year
Co-I, Kelley Grayson	4 months/year	N/A	4 months/year
Co-I, Dr. C. Finn.*	N/A	1.5 months/year	1.5 months/year
Collaborator, Alara Kitan	N/A	de minimis	de minimis
Grad Student, P. Bortus <sup>o</sup>	N/A	12 months/year	12 months/year

\* A letter of support is provided from the (foreign organization) Saturnian School of Medical Sciences for Dr. Claire Finn, participating at no cost to this proposal .

<sup>o</sup> The Graduate student from Moclan College is funded by a FINESST award and thus participating at no cost to this proposal.

# Order of Precedence

- There is a section I(h) in the Summary of Solicitation, called Order of Precedence: The Guidebook vs. ROSES vs. Program Elements which tells you what to do if ROSES SOS, the guidebook, and or an individual program element disagree:  
Program element > Division Research Overview (e.g., B.1) > SOS > Guidebook.
- FAQs should merely elaborate, not surprise you or contravene a rule in the program element.